

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

SEQUENCE LISTING

<110> KUMAGAI, MONTA H.
della-CIOPPA, GUY R.
DONSON, JONATHAN
HARVEY, DAMON A.
GRILL, LAURENCE K.

<120> THE CYTOPLASMIC INHIBITION OF GENE
EXPRESSION BY VIRAL RNA

<130> 008010086US02

<140> 09/436,068

<141> 1999-11-08

<150> 09/265,576

<151> 1999-03-09

<150> 08/260,546

<151> 1994-06-16

<150> 08/184,237

<151> 1994-01-19

<150> 07/923,692

<151> 1992-07-31

<160> 15

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 26

<212> DNA

<213> Tomato mosaic virus

<400> 1

ctcgcaaagt ttcgaaccaa atcctc

26

<210> 2

<211> 35

<212> DNA

<213> Tomato mosaic virus

<400> 2

cgggggtacct gggccccaac cgggggttcc ggggg

35

<210> 3

<211> 41

<212> DNA

<213> Tomato mosaic virus

<400> 3

tcctcgagcc taggctcgca aagtttcgaa ccaaatacctc a

41

| | |
|----------------------------------|----|
| <210> 4 | |
| <211> 24 | |
| <212> DNA | |
| <213> Tomato mosaic virus | |
| <400> 4 | |
| tatgtatggt gcagaagaac agat | 24 |
| <210> 5 | |
| <211> 25 | |
| <212> DNA | |
| <213> Tomato mosaic virus | |
| <400> 5 | |
| agtcgactct tcctcttctg gcac | 25 |
| <210> 6 | |
| <211> 30 | |
| <212> DNA | |
| <213> Tomato mosaic virus | |
| <400> 6 | |
| tgctcgagtg tgttcttcag ttttctgtca | 30 |
| <210> 7 | |
| <211> 25 | |
| <212> DNA | |
| <213> Tomato mosaic virus | |
| <400> 7 | |
| aactcgagcg ctttctccga agctt | 25 |
| <210> 8 | |
| <211> 20 | |
| <212> DNA | |
| <213> Tomato mosaic virus | |
| <400> 8 | |
| ggcactcaac tttataaacc | 20 |
| <210> 9 | |
| <211> 20 | |
| <212> DNA | |
| <213> Tomato mosaic virus | |
| <400> 9 | |
| cttcagtttt ctgtcaaacc | 20 |
| <210> 10 | |
| <211> 25 | |
| <212> DNA | |
| <213> Nicotiana benthamiana | |
| <400> 10 | |
| taatcgatga tgattcggag gctac | 25 |
| <210> 11 | |

<211> 20
 <212> DNA
 <213> Nicotiana benthamiana

<400> 11
 ctcctttaat tgtactgcca

20

<210> 12
 <211> 114
 <212> DNA
 <213> Tomato mosaic virus

<220>
 <221> CDS
 <222> (28)... (114)

<400> 12
 gttttaaata cgctcgaggt tttaaata atg tct gtt gcc ttg tta tgg gtt gtt 54
 Met Ser Val Ala Leu Trp Val Val
 1 5

tct cct tgt gac gtc tca aat ggg aca agt ttc atg gaa tca gtc cgg 102
 Ser Pro Cys Asp Val Ser Asn Gly Thr Ser Phe Met Glu Ser Val Arg
 10 15 20 25

gag gga aac cgt
 Glu Gly Asn Arg 114

<210> 13
 <211> 29
 <212> PRT
 <213> Tomato mosaic virus

<400> 13
 Met Ser Val Ala Leu Leu Trp Val Val Ser Pro Cys Asp Val Ser Asn
 1 5 10 15
 Gly Thr Ser Phe Met Glu Ser Val Arg Glu Gly Asn Arg
 20 25

<210> 14
 <211> 380
 <212> DNA
 <213> Nicotiana benthamiana

<400> 14
 ataaaccctg acgagctttc gatgcagtgc atcttgattg ctttgaacag atttcttcag 60
 gagaaacatg gttcaaaaat ggccttttta gatggtaacc ctctgagag actttgcatg 120
 ccgattgtgg aacatattga gtcaaaaggt ggccaagtca gactaaactc acgaataaaa 180
 aagatcgagc tgaatgagga tggaagtgtc aaatgtttta tacagaataa tggcagtaca 240
 attaaaggag atgcttttgt gtttgccact ccagtgagata tcttgaagct tcttttgcct 300
 gaagactgga aagagatccc atatttccaa aagttggaga agctagtggg agttcctgtg 360
 ataaatgtcc atatatggtt 380

<210> 15
 <211> 380

<212> DNA

<213> Tomato phytoene desaturase (PDS-Le)

<400> 15

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ataaaccctg | acgaactttc | aatgcagtgc | atdddgatcg | cattgaacag | gtttcttcag | 60 |
| gagaaacatg | gttcaaaaat | ggccttttta | gatggtaatc | ctcctgagag | actttgcatg | 120 |
| ccgattgttg | aacacattga | gtcaaaaagg | ggccaagtca | gactgaactc | acgaataaaa | 180 |
| aagattgagc | tgaatgagga | tggaagtgtc | aagagtttta | tactgagtga | cggtagtgca | 240 |
| atcgagggag | atgcttttgt | gtttgccgct | ccagtggata | ttttcaagct | tctattgcct | 300 |
| gaagactgga | aagagattcc | atatttccaa | aagttggaga | agttagtcgg | agtacctgtg | 360 |
| ataaatgtac | atatatggtt | | | | | 380 |